



FAG

32024-X-H

Tapered roller bearing

Tapered roller bearings 320, main dimensions  
acc. to DIN 720, separable

Informacje techniczne



Twoja aktualna wersja produktu

|                 |          |                                              |
|-----------------|----------|----------------------------------------------|
| Tolerance class | P6X      | Class 6X (ISO 492:2023)                      |
| Heat treatment  | Standard |                                              |
| Cage            | Standard | Sheet steel cage, window cage, roller-guided |
| Quality level   | H        |                                              |
| Number of rows  | 1        | Single-row design                            |

Main Dimensions & Performance Data

|                 |             |                                   |
|-----------------|-------------|-----------------------------------|
| d               | 120 mm      | Bore diameter                     |
| D               | 180 mm      | Outside diameter                  |
| B               | 38 mm       | Width, inner ring                 |
| C               | 29 mm       | Width, outer ring                 |
| T               | 38 mm       | Width, total                      |
| C <sub>r</sub>  | 238.000 N   | Basic dynamic load rating, radial |
| C <sub>0r</sub> | 420.000 N   | Basic static load rating, radial  |
| C <sub>ur</sub> | 48.500 N    | Fatigue load limit, radial        |
| n <sub>G</sub>  | 2.960 1/min | Limiting speed                    |
| n <sub>gr</sub> | 2.460 1/min | Thermal speed rating              |
| ≈m              | 3,28 kg     | Masa                              |



Mounting dimensions

|         |        |                                      |
|---------|--------|--------------------------------------|
| d a max | 131 mm | Maximum diameter of shaft shoulder   |
| d b min | 130 mm | Minimum diameter of shaft shoulder   |
| D a min | 161 mm | Minimum diameter of housing shoulder |
| D a max | 170 mm | Maximum diameter of housing shoulder |
| D b min | 173 mm | Minimum diameter of housing shoulder |
| C a min | 7 mm   | Minimum axial space                  |
| C b min | 9 mm   | Minimum axial space                  |
| r a max | 2,5 mm | Maximum fillet radius of shaft       |
| r b max | 2 mm   | Maximum fillet radius of housing     |

Dimensions

|            |          |                                                   |
|------------|----------|---------------------------------------------------|
| r 1, 2 min | 2,5 mm   | Minimum chamfer dimension of inner ring back face |
| r 3, 4 min | 2 mm     | Minimum chamfer dimension of outer ring back face |
| a          | 40 mm    | Distance between the apexes of the pressure cones |
| d 1 max    | 154,8 mm | Maximum guidance rib diameter of inner ring       |

Temperature range

|       |        |                            |
|-------|--------|----------------------------|
| T min | -30 °C | Operating temperature min. |
| T max | 120 °C | Operating temperature max. |

Calculation factors

|     |      |                                                                                  |
|-----|------|----------------------------------------------------------------------------------|
| e   | 0,46 | Limiting value of Fa/Fr for the applicability of diff. Values of factors X and Y |
| Y   | 1,31 | Dynamic axial load factor                                                        |
| Y 0 | 0,72 | Static axial load factor                                                         |

Additional information

|         |                                                  |
|---------|--------------------------------------------------|
| T4DC120 | Comparative designation to ISO 10317 and ISO 355 |
|---------|--------------------------------------------------|



### Właściwości



Obciążenie promieniowe



Obciążenie osiowe jednokierunkowe



Smarowanie smarem



Smarowanie olejem



Bez uszczelnienia